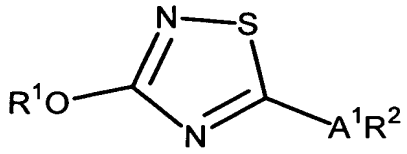
CLAIMS

1. A 1,2,4-thiadiazole compound represented by the formula (1):



(1)

wherein, R^1 represents C3-C7 alkynyl that may be substituted with halogen atom; R^2 represents C3-C8 cycloalkyl, C5-C8 cycloalkenyl or C7-C11 bicycloalkyl, wherein the C3-C8 cycloalkyl, the C5-C8 cycloalkenyl and the C7-C11 bicycloalkyl may be substituted with a substituent(s) selected from a group of C1-C4 alkyl, halogen atom and trifluoromethyl; A^1 represents a single bond, C1-C2 alkylene or C2-C3 alkylidene.

2. The 1,2,4-thiadiazole compound according to claim 1, wherein R^2 is C3-C8 cycloalkyl which may be substituted with C1-C4 alkyl in the formula (1).

3. The 1,2,4-thiadiazole compound according to claim 1 or 2, wherein A^1 is single bond in the formula (1).

4. The 1,2,4-thiadiazole compound according to claim 1 or 2, wherein A^1 is C1-C2 alkylene in the formula (1).

5. The 1,2,4-thiadiazole compound according to claim 1 or 2, wherein R^1 is 2-butynyl or 2-pentynyl in the formula (1).

6. An arthropod controlling composition comprising the 1,2,4-thiadiazole compound according to claim 1 and an inert carrier.

7. A method for controlling arthropod pests comprising applying an effective dose of the 1,2,4-thiadiazole compound according to claim 1 to the arthropod pests or habitat of the arthropod pests.

8. Use of the 1,2,4-thiadiazole compound according to claim 1 for the arthropod pests controlling composition.